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BOOKS AND PERIODICALS.

The Principles of Mathematics. By Bertrand Russell, A. M., late Fellow of Trinity College, Cambridge. Vol. I., large 8 vo. Cloth. xxix+534 pages. Price $3.50 New York: The Macmillan Co.

The author says that the object of the work is two fold. One of these objects is to prove that all pure mathematics deals exclusively with concepts definable in terms of a very small number of fundamental logical concepts, and that all its propositions are deducible from a very small number of logical principles. This proof is undertaken in this volume in parts II—VII. In volume II, a demonstration of the same proposition is to be given by strict symbolic reasoning.

The second object of the work, occupying part I, is the explanation of the fundamental concepts which mathematics accepts as indefinable.

The work before us which is addressed in equal measure to philosophers and mathematicians, must not be considered easy reading. Indeed, some chapters, as for example, the chapter on Symbolic Logic, the chapter on Propositional Functions and many others, are quite obstruse. But the chapter on Infinity, the Infinitesimal, and Continuity, and many others are quite valuable to the ordinary student of mathematics.

The second volume, the author informs us, will be addressed exclusively to mathematicians. The whole work will constitute a valuable addition to the library of philosophers and mathematicians alike. B. F. F.

Plane and Solid Geometry, on the Suggestive Method, with Numerous Exercises and a Brief Course on Loci of Equations and on Conic Sections, by A. W. Williamson, Professor of Mathematics in Augustana College, Rock Island, Ill. 8 vo. Cloth. x+283 pp. Price, $1.00.

This work is based on the "heuristic method", and, while small in size, yet it contains more than the usual amount of matter offered in the common geometry course.

Many propositions are combined and easy exercises are given illustrating the important propositions. The book is a good one, and is worthy a cordial reception by teachers of Geometry who are seeking a good book on the subject and presenting it from the standpoint of the "heuristic method." B. F. F.

The American Journal of Mathematics. Edited by Frank Morley and others. Published Quarterly under the Auspices of Johns Hopkins University. Price, $5.00 per year, in advance

No. 3 of Vol. XXV contains the following articles: Isothermal-Conjugate Systems of Lines on Surfaces, by L. P. Eisenhart; Some Differential Equations Connected with Lines on Hypersurfaces, by G. O. James; On the Forms of Sextic Scrolls of Genus Greater than One, by Virgil Snyder; Geometry of the Cuspidal Cubic Cone, by Frederick C. Ferry.

The Annals of Mathematics. Editer by W. E. Byerly and others. Published Quarterly under the Auspices of Harvard University. Price, $2.00 per year, in advance.

No. 4 of Vol. IV, Second Series, contains the following articles: On the Character of Differential Equations, by E. R. Hedrick; On the Uniformity of the Convergence of Certain Absolutely Convergent Series, by Maxime Bocher; The Integral as the Limit of a Sum, and a Theorem of Dahamel's, by W. F. Osgood; On a General Relation of Continued Fractions, by R. E. Moretz; Note on the Equilateral Hyperbola, by J. A. Van Groos; A New Proof of the Generalized Wilson's Theorem, by G. A. Miller; A Sufficient Condition for the Maximum Number of Imaginary Roots of an Equation of the *n*th Degree, by E. B. Van Vleck.